



Little Vermilion Bay Sediment Trapping (TV-1 2)

Project Status

Approved Date: 1996 **Cost:** \$894,000
Project Area: 1105 acres **Status:** Completed
Net Benefit After 20 Years: 441 acres Aug. 1999
Project Type: Shoreline Protection and Sediment Trapping

Location

This project is located in the northwestern corner of Little Vermilion Bay at its intersection with the Gulf Intracoastal Waterway (GIWW) in Vermilion Parish, Louisiana. The project area encompasses 964 acres.

Problems

High winds and waves prevent GIWW sediments transported down the Freshwater and Schooner bayous from settling and forming the basis of vegetated marsh. This same wind and wave energy also increases shoreline erosion rates.

Restoration Strategy

This project involved the construction of a series of vegetated terraces to diminish waves in Little Vermilion Bay, helping to increase sediment deposition and reduce the rate of shoreline erosion. A pattern of channels was dredged 100-feet wide and 6-feet deep to beneficially distribute sediment from the GIWW through the Freshwater and Schooner bayous. Dredged sediments were used to construct 23 earthen terraces with a combined length of 23,300 feet. After settling, the average height of the terraces was 3.5 feet above mean sea level.

The bases of the terraces were planted with 20,450 containers of smooth cordgrass (*Spartina alterniflora*).

The design allows commercial and recreational fisherman to access the project area, and it stimulates fishery production by creating new habitat and increasing shoreline length.

In 1998 alone (prior to the project's completion) 40 acres of wetland habitat were created.



Aerial photo of constructed terraces in Little Vermilion Bay.

Progress to Date

Monitoring is underway and preliminary observations show that the terraces are growing in width, indicating marsh growth in the project area. This project is on Priority Project List 5.

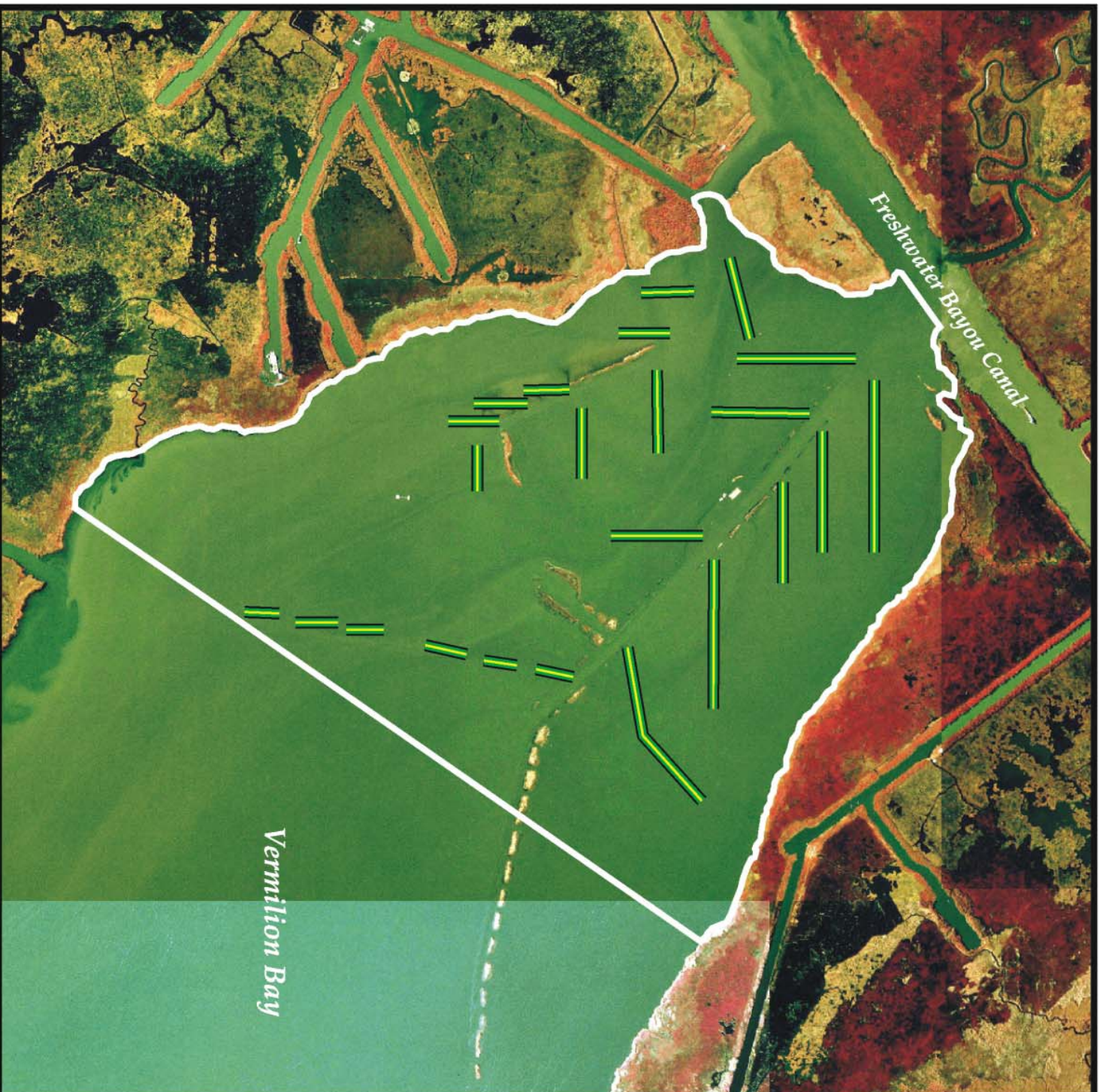
For more project information, please contact:





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Local Sponsor:
 Louisiana Department of Natural Resources
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Little Vermillion Bay Sediment Trapping (TV-12)

-  Terrace
-  Project Boundary



Map Produced By:
U.S. Department of the Interior
U.S. Geological Survey
National Wetlands Research Center
Coastal Restoration Field Station

Background Imagery:
1998 Digital Orthophoto Quarter Quadrangle
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